

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
1	1	1419	757	emb X17301 SAHD	S.aureus DNA for hld gene and for part of agr gene	100	663	663
1	2	3273	2452	emb X52543 SAAG	S.aureus agrA, agrB and hld genes	99	809	822
1	5	6418	5651	dbj D14711 STAH	Staphylococcus aureus HSP10 and HSP60 genes	98	223	768
5	1	807	439	emb X72700 SAPV	S.aureus genes for S and F components of Panton-Valentine leucocidins	81	216	369
5	4	5031	3571	emb X72700 SAPV	S.aureus genes for S and F components of Panton-Valentine leucocidins	95	424	1461
10	1	86	904	gb L25288	Staphylococcus aureus gyrase-like protein alpha and beta subunit (grlA and grlB) genes, complete cds	98	715	819
16	5	5302	6246	gb U35773	Staphylococcus aureus prolipoprotein diacylglyceryl transferase (lgt) gene, complete cds	94	251	945
16	6	6249	7091	gb U35773	Staphylococcus aureus prolipoprotein diacylglyceryl transferase (lgt) gene, complete cds	99	843	843
16	7	7084	7584	gb U35773	Staphylococcus aureus prolipoprotein diacylglyceryl transferase (lgt) gene, complete cds	99	342	501
20	1	995	549	gb L19300	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	100	443	447
20	2	1011	841	gb L19300	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	91	137	171
20	3	2010	1798	gb L19300	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	100	110	213
20	4	5300	3825	gb M76714	Staphylococcus aureus peptidoglycan hydrolase gene, complete cds	100	948	1476
20	5	4788	4282	gb M76714	Staphylococcus aureus peptidoglycan hydrolase gene, complete cds	100	309	507
26	1	2	145	gb U41072	Staphylococcus aureus isoleucyl-tRNA synthetase (iles) gene, partial cds	100	126	144
26	2	84	557	gb U41072	Staphylococcus aureus isoleucyl-tRNA synthetase (iles) gene, partial cds	99	430	474
26	3	763	3531	emb X74219 SAIL	S.aureus gene for isoleucyl-tRNA synthetase	99	2769	2769
29	3	1261	4392	gb U66665	Staphylococcus aureus DNA fragment with class II promoter activity	100	117	3132
31	14	14977	13463	emb X73889 SAP1	S.aureus genes P1 and P2	99	1351	1515
31	15	14241	13855	emb X73889 SAP1	S.aureus genes P1 and P2	98	258	387
38	17	14284	13112	gb M12715	S.aureus geh gene encoding lipase (glycerol ester hydrolase)	100	372	1173
38	19	13434	15518	gb M12715	S.aureus geh gene encoding lipase (glycerol ester hydrolase)	100	2085	2085

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Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
46	2	519	1727	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	1209	1209
46	3	1720	2295	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	576	576
46	4	2259	3182	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	97	924	924
46	5	3173	4498	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	1283	1326
46	6	4536	5720	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	1185	1185
46	7	6455	6120	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	99	278	336
48	1	2	955	gb L25893	Staphylococcus aureus recA gene, complete cds	99	954	954
50	3	4465	2924	emb X85029 SAAH	S.aureus AhpC gene	100	88	1542
50	4	4108	3515	emb X85029 SAAH	S.aureus AhpC gene	98	540	594
54	3	5074	3392	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	100	1668	1683
54	4	4865	4122	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	99	720	744
54	5	5056	4562	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	100	463	495
54	6	11386	8300	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	100	3087	3087
58	3	1743	2819	emb X87104 SADN	S.aureus mdr, pbp4 and tagD genes (SG511-55 isolate)	89	68	1077
58	4	2858	3280	emb X91786 SAPB	S.aureus abcA, pbp4, and tagD genes	99	423	423
58	5	6005	4701	emb X91786 SAPB	S.aureus abcA, pbp4, and tagD genes	99	1305	1305
58	6	5677	5378	gb U29478	Staphylococcus aureus ABC transporter-like protein AbcA (abcA) gene, partial cds	100	300	300
58	7	5086	6840	emb X91786 SAPB	S.aureus abcA, pbp4, and tagD genes	99	1755	1755
72	1	888	445	gb M21854	S.aureus agr gene encoding an accessory gene regulator protein, complete cds	100	444	444
72	2	2457	1453	emb X52543 SAAG	S.aureus agrA, agrB and hld genes	99	673	1005

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82	1	357	3917	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	2396	3561
82	2	4027	7677	emb X89233 SARP	S.aureus DNA for rpoC gene	99	3171	3651
82	3	7745	8068	gb U20869	Staphylococcus aureus ribosomal protein S12 (rpsL) gene, complete cds, ribosomal protein S7 (rpsG) and ORF 1 genes, partial cds	100	320	324
82	4	8103	8579	gb U20869	Staphylococcus aureus ribosomal protein S12 (rpsL) gene, complete cds, ribosomal protein S7 (rpsG) and ORF 1 genes, partial cds	100	477	477
82	5	8618	8821	gb U20869	Staphylococcus aureus ribosomal protein S12 (rpsL) gene, complete cds, ribosomal protein S7 (rpsG) and ORF 1 genes, partial cds	100	154	204
84	1	18	191	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	164	174
84	2	189	893	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	94	705	705
84	3	887	1660	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	99	774	774
84	4	1584	3503	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	98	1920	1920
84	5	3394	4521	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	97	1128	1128
84	6	4519	5643	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	97	1125	1125
96	2	1245	3896	emb Z18852 SACF	S.aureus gene for clumping factor	83	660	2652
97	2	625	882	gb U41072	Staphylococcus aureus isoleucyl-tRNA synthetase (iles) gene, partial cds	97	68	258
111	1	3	452	gb L41499	Staphylococcus aureus ORF1, partial cds, ORF2, ORF3, autolysin (atl) genes, complete cds	100	450	450
111	2	526	1041	gb L41499	Staphylococcus aureus ORF1, partial cds, ORF2, ORF3, autolysin (atl) genes, complete cds	99	516	516
117	2	1278	1958	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	100	61	681

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118	4	3787	4254	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	99	467	468
130	4	2597	3640	emb X13290 SATN	Staphylococcus aureus multi-resistance plasmid pSK1 DNA containing transposon Tn4003	78	956	1044
130	5	3813	4265	emb Z16422 SADI	S.aureus dfrB gene for dihydrofolate reductase	98	416	453
130	6	4309	5172	emb Z16422 SADI	S.aureus dfrB gene for dihydrofolate reductase	98	607	864
136	4	5296	6207	emb X71437 SAGY	S.aureus genes gyrB, gyrA and recF (partial)	97	838	912
136	5	11680	8987	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	100	2694	2694
136	6	12886	10940	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	99	1947	1947
136	7	112592	11765	gb S77055	recF cluster: dnaA=replicosome assembly protein...gyrB=DNA gyrase beta subunit [Staphylococcus aureus, YB886, Genomic, 3573 nt]	99	822	828
143	3	4171	2867	gb U36379	Staphylococcus aureus S-adenosylmethionine synthetase gene, complete cds	99	1305	1305
143	4	3100	4281	gb L42943	Staphylococcus aureus (clone KIN50) phosphoenolpyruvate carboxykinase (pckA) gene, complete cds	100	1170	1182
143	5	4254	4718	gb U51133	Staphylococcus aureus phosphoenolpyruvate carboxykinase (pckA) gene, complete cds	100	449	465
143	9	6977	7261	gb U51132	Staphylococcus aureus o-succinylbenzoic acid CoA ligase (mene), and o-succinylbenzoic acid synthetase (menc) genes, complete cds	100	75	285
143	10	9464	8361	gb U51132	Staphylococcus aureus o-succinylbenzoic acid CoA ligase (mene), and o-succinylbenzoic acid synthetase (menc) genes, complete cds	100	1104	1104
143	11	11232	9748	gb U51132	Staphylococcus aureus o-succinylbenzoic acid CoA ligase (mene), and o-succinylbenzoic acid synthetase (menc) genes, complete cds	100	1485	1485
143	12	10739	10320	gb U51132	Staphylococcus aureus o-succinylbenzoic acid CoA ligase (mene), and o-succinylbenzoic acid synthetase (menc) genes, complete cds	100	332	420
152	5	2454	3437	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	99	305	984
152	6	3513	4820	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	98	1308	1308
152	7	4818	6230	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	99	1413	1413
153	1	387	1526	gb S77055	recF cluster: dnaA=replicosome assembly protein...gyrB=DNA gyrase beta subunit [Staphylococcus aureus, YB886, Genomic, 3573 nt]	99	1140	1140
153	2	1877	2152	gb S77055	recF cluster: dnaA=replicosome assembly protein...gyrB=DNA gyrase beta subunit [Staphylococcus aureus, YB886, Genomic, 3573 nt]	100	276	276

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153	3	2143	2289	gb S77055	recF cluster: dnaA=replicosome assembly protein...gyrB=DNA gyrase beta subunit [Staphylococcus aureus, YB886, Genomic, 3573 nt]	99	113	147
154	10	110792	9314	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	91	154	1479
154	11	9935	9615	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	99	229	321
154	12	9943	10167	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	94	123	225
154	13	110089	11501	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	99	1326	1413
159	2	2195	1212	dbj D28879 STAP	Staphylococcus aureus gene for penicillin-binding protein 1, complete cds	100	71	984
161	3	2596	2270	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	92	203	327
162	1	1406	705	gb U21221	Staphylococcus aureus hyaluronate lyase (hysA) gene, complete cds	100	702	702
163	4	1263	1772	gb U19770	Staphylococcus aureus pyrrolidone carboxyl peptidase (pcp) gene, complete cds	96	127	510
164	7	4774	9117	dbj D86727 D867	Staphylococcus aureus DNA for DNA polymerase III, complete cds	99	3470	4344
168	7	7448	6447	gb U21636	Staphylococcus aureus cmp-binding-factor 1 (cbf1) and ORF X genes, complete cds	100	1002	1002
168	8	9538	7961	gb U21636	Staphylococcus aureus cmp-binding-factor 1 (cbf1) and ORF X genes, complete cds	99	1158	1578
173	6	9240	7801	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	100	1440	1440
173	7	11252	9522	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	99	1731	1731
173	8	8285	8704	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	100	420	420
173	9	110168	9839	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	100	330	330
173	10	111815	10829	emb X14827 SALA	Staphylococcus aureus lacC and lacD genes	100	987	987
173	11	112721	11774	emb X14827 SALA	Staphylococcus aureus lacC and lacD genes	100	948	948
173	12	12838	12305	gb M64724	S.aureus tagatose 6-phosphate isomerase gene, complete cds	100	534	534
173	13	113243	12773	gb M32103	Staphylococcus aureus lac repressor (lacR) gene, complete cds and lacA repressor (lacA), partial cds	100	471	471
173	14	114633	13866	gb M32103	Staphylococcus aureus lac repressor (lacR) gene, complete cds and lacA repressor (lacA), partial cds	100	768	768

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178	1	2	655	gb U52961	Staphylococcus aureus holin-like protein LrgA (lrgA) and LrgB (lrgB) genes, complete cds	100	115	654
178	2	2201	1482	gb U52961	Staphylococcus aureus holin-like protein LrgA (lrgA) and LrgB (lrgB) genes, complete cds	100	720	720
178	3	2361	1909	gb U52961	Staphylococcus aureus holin-like protein LrgA (lrgA) and LrgB (lrgB) genes, complete cds	100	453	453
178	4	1551	1853	gb U52961	Staphylococcus aureus holin-like protein LrgA (lrgA) and LrgB (lrgB) genes, complete cds	100	303	303
178	5	3541	2777	gb L42945	Staphylococcus aureus lytS and lytR genes, complete cds	99	765	765
178	6	3294	3025	gb L42945	Staphylococcus aureus lytS and lytR genes, complete cds	99	270	270
181	1	1114	590	gb M63177	S.aureus sigma factor (plaC) gene, complete cds	99	499	525
182	1	3	341	emb X61307 SASP	Staphylococcus aureus spa gene for protein A	98	277	339
182	2	690	2312	gb J01786	S.aureus spa gene coding for protein A, complete cds	97	1332	1623
182	3	5861	4251	emb X61307 SASP	Staphylococcus aureus spa gene for protein A	99	119	1611
185	1	3	824	gb U31979	Staphylococcus aureus chorismate synthase (aroC) and nucleoside diphosphate kinase (ndk) genes, complete cds, dehydroquinase synthase (aroB) and geranylgeranyl pyrophosphate synthetase homolog (gerCC) genes, partial cds	90	132	822
191	3	841	2760	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	99	1920	1920
191	4	2967	3143	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	99	177	177
191	5	5768	4566	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	99	250	1203
196	1	1741	872	gb L36472	Staphylococcus aureus lysyl-tRNA synthetase gene, complete cds, transfer RNA (tRNA) genes, 5S ribosomal RNA (5S rRNA) gene, 16S ribosomal RNA (16S rRNA) gene, 23S ribosomal RNA (23S rRNA) gene	99	870	870
198	3	1688	2011	emb X93205 SAPT	S.aureus ptsH and ptsI genes	99	324	324
198	4	2005	2310	emb X93205 SAPT	S.aureus ptsH and ptsI genes	97	304	306
202	1	163	1305	emb X97985 SA12	S.aureus orfs 1,2,3 & 4	99	1143	1143
202	2	1303	2175	emb X73889 SAP1	S.aureus genes P1 and P2	94	444	873
210	1	3114	1558	dbj D17366 STAA	Staphylococcus aureus atl gene for autolysin, complete cds and other ORFs	99	1552	1557
210	2	2939	2232	gb L41499	Staphylococcus aureus ORF1, partial cds, ORF2, ORF3, autolysin (atl) genes, complete cds	99	684	708
214	11	7429	7770	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	96	157	342

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216	3	398	1318	emb X72700 SAPV	S.aureus genes for S and F components of Pantone-Valentine leucocidins	88	265	921
219	2	1810	1073	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	100	60	738
219	3	2979	2035	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	99	945	945
219	4	4359	3196	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	99	1164	1164
219	5	7044	5176	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	98	1869	1869
219	6	6557	5883	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	99	675	675
219	7	6801	6334	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	98	468	468
221	8	10816	10034	gb L19298	Staphylococcus aureus phosphatidylinositol-specific phospholipase C (plc) gene, complete cds	91	67	783
223	1	2855	1506	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	99	102	1350
234	1	2	1357	emb X97985 SA12	S.aureus orfs 1,2,3 & 4	100	176	1356
234	2	1694	2485	emb X97985 SA12	S.aureus orfs 1,2,3 & 4	100	792	792
234	3	2648	3148	emb X97985 SA12	S.aureus orfs 1,2,3 & 4	99	501	501
234	4	3120	4604	emb X97985 SA12	S.aureus orfs 1,2,3 & 4	99	1305	1485
236	6	3826	5322	gb U48826	Staphylococcus aureus elastin binding protein (ebps) gene, complete cds	96	648	1497
248	1	2	403	emb X62288 SAPE	S.aureus DNA for penicillin-binding protein 2	100	103	402
248	2	388	852	gb L25426	Staphylococcus aureus penicillin-binding protein 2 (pbp2) gene, complete cds	99	465	465
253	2	1539	1093	gb U46541	Staphylococcus aureus sarA gene, complete cds	96	447	447
254	2	150	1835	gb U57060	Staphylococcus aureus scdA gene, complete cds	94	142	1686
254	3	1973	2728	gb U57060	Staphylococcus aureus scdA gene, complete cds	99	756	756
260	1	2	1900	gb M90693	Staphylococcus aureus glycerol ester hydrolase (lip) gene, complete cds	99	1213	1899
265	1	1	942	dbj D21131 STAS	Staphylococcus aureus gene for a participant in homogeneous expression of high-level methicillin resistance, complete cds	99	941	942

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265	2	688	476	dbj D211131 STAS	Staphylococcus aureus gene for a participant in homogeneous expression of high-level methicillin resistance, complete cds	99	213	213
265	3	2418	1765	dbj D211131 STAS	Staphylococcus aureus gene for a participant in homogeneous expression of high-level methicillin resistance, complete cds	98	69	654
266	1	2	1018	dbj D14711 STAH	Staphylococcus aureus HSP10 and HSP60 genes	98	743	1017
282	1	1	525	gb S72488	hemB=porphobilinogen synthase [Staphylococcus aureus, SA1959, Genomic, 1087 nt]	100	110	525
282	2	516	1502	gb S72488	hemB=porphobilinogen synthase [Staphylococcus aureus, SA1959, Genomic, 1087 nt]	100	952	987
284	1	3	170	gb M63176	Staphylococcus aureus helicase required for T181 replication (pcrA) gene, complete cds	98	84	168
284	2	282	1034	gb M63176	Staphylococcus aureus helicase required for T181 replication (pcrA) gene, complete cds	100	712	753
284	3	1028	2026	gb M63176	Staphylococcus aureus helicase required for T181 replication (pcrA) gene, complete cds	99	979	999
284	4	1990	2202	gb M63176	Staphylococcus aureus helicase required for T181 replication (pcrA) gene, complete cds	98	187	213
289	3	1536	1991	gb M32470	S.aureus Sau3AI-restriction-enzyme and Sau3AI-modification-enzyme genes, complete cds	99	338	456
303	1	2	868	gb L01055	Staphylococcus aureus gamma-hemolysin components A, B and C (hlgA, hlgB, hglC) genes, complete cds	99	867	867
303	2	1409	2383	gb L01055	Staphylococcus aureus gamma-hemolysin components A, B and C (hlgA, hlgB, hglC) genes, complete cds	100	975	975
303	3	2367	3161	gb L01055	Staphylococcus aureus gamma-hemolysin components A, B and C (hlgA, hlgB, hglC) genes, complete cds	99	793	795
305	1	2707	1355	dbj D17366 STAA	Staphylococcus aureus atl gene for autolysin, complete cds and other ORFs	99	1343	1353
311	1	2628	1315	gb L42945	Staphylococcus aureus lytS and lytR genes, complete cds	98	1314	1314
312	6	7019	7870	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	74	351	852
323	1	1998	1003	gb U31175	Staphylococcus aureus D-specific D-2-hydroxyacid dehydrogenase (ddh) gene, complete cds	98	996	996
326	1	1	237	emb Y00356 SASP	Staphylococcus aureus V8 serine protease gene	100	108	237
338	1	687	388	emb X64389 SALE	S.aureus leuF-P83 gene for F component of leucocidin R	98	259	300
338	2	1828	1088	emb X64389 SALE	S.aureus leuF-P83 gene for F component of leucocidin R	97	137	741

Table 1



S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
342	2	579	1754	gb U06462	Staphylococcus aureus SA4 FtsZ (ftsZ) gene, complete cds	100	1176	1176
344	2	517	1248	emb V01281 SANU	S.aureus mRNA for nuclease	98	732	732
349	1	457	230	gb M20393	S.aureus bacteriophage phi-11 attachment site (attB)	96	172	228
353	1	1016	516	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	100	187	501
353	2	1582	1046	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	99	537	537
356	1	3	674	gb U20503	Staphylococcus aureus MHC class II analog gene, complete cds	75	671	672
361	1	1	903	gb L19298	Staphylococcus aures phosphatidylinositol-specific phospholipase C (plc) gene, complete cds	98	747	903
361	2	1103	1507	gb L19298	Staphylococcus aures phosphatidylinositol-specific phospholipase C (plc) gene, complete cds	97	68	405
373	1	3	1148	emb X62288 SAFE	S.aureus DNA for penicillin-binding protein 2	99	1146	1146
389	3	1904	1248	emb X62282 SATS	S.aureus target site DNA for IS431 insertion	97	349	657
400	1	1	540	emb X61716 SAHL	S.aureus hlb gene encoding sphingomyelinase	99	389	540
400	2	1693	1187	emb X13404 SAHL	Staphylococcus aureus hlb gene for beta-hemolysin	99	178	507
408	1	1810	1049	gb S76213	asp23=alkaline shock protein 23 {methicillin resistant} [Staphylococcus aureus, 912, Genomic, 1360 nt]	99	163	762
418	1	2	217	gb L41499	Staphylococcus aureus ORF1, partial cds, ORF2, ORF3, autolysin (atl) genes, complete cds	100	216	216
418	2	854	639	dbj D17366 STAA	Staphylococcus aureus atl gene for autolysin, complete cds and other ORFs	100	188	216
421	2	1262	2509	gb L43098	Transposon Tn5404 and insertion sequences IS1181 and IS1182 (from Staphylococcus aureus) DNA	99	1248	1248
422	1	2	325	gb K02985	S.aureus (strain RN450) transposon Tn554 insertion site	96	200	324
427	1	865	434	dbj D28879 STAP	Staphylococcus aureus gene for penicillin-binding protein 1, complete cds	100	432	432
427	2	1829	1122	dbj D28879 STAP	Staphylococcus aureus gene for penicillin-binding protein 1, complete cds	100	151	708
435	1	2	808	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	100	556	807
435	2	832	999	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	100	134	168
436	1	1341	685	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	97	657	657

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
436	2	2403	1657	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	100	294	747
442	1	347	1300	emb X72700 SAPV	S.aureus genes for S and F components of Panton-Valentine leucocidins	84	204	954
445	2	1906	2178	gb L101055	Staphylococcus aureus gamma-hemolysin components A, B and C (hlgA, hlgB, hlgC) genes, complete cds	98	187	273
447	1	167	1078	gb U19770	Staphylococcus aureus pyrrolidone carboxyl peptidase (pcp) gene, complete cds	100	51	912
447	2	1176	1784	gb U19770	Staphylococcus aureus pyrrolidone carboxyl peptidase (pcp) gene, complete cds	96	597	609
454	3	7309	4319	emb Z18852 SACF	S.aureus gene for clumping factor	75	653	2991
472	4	7896	5479	gb L25288	Staphylococcus aureus gyrase-like protein alpha and beta subunit (grlA and grlB) genes, complete cds	99	2418	2418
472	5	8120	6792	gb L25288	Staphylococcus aureus gyrase-like protein alpha and beta subunit (grlA and grlB) genes, complete cds	99	1328	1329
475	2	566	889	emb X52543 SAAG	S.aureus agrA, agrB and hld genes	100	76	324
481	4	1922	1560	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	250	363
481	5	1244	1534	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	224	291
487	2	1388	1188	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	98	72	201
489	1	2737	1370	gb U21221	Staphylococcus aureus hyaluronate lyase (hysA) gene, complete cds	99	1368	1368
503	2	1135	653	gb M83994	Staphylococcus aureus prolipoprotein signal peptidase (lsp) gene, complete cds	100	108	483
511	3	1613	2242	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	84	323	630
511	4	3122	2700	gb S76213	asp23=alkaline shock protein 23 (methicillin resistant) (Staphylococcus aureus, 912, Genomic, 1360 nt)	96	423	423
520	2	758	1297	emb X72014 SAFI	S.aureus fib gene for fibrinogen-binding protein	99	540	540
520	3	1436	1801	emb X72013 SAFI	S.aureus fib gene for fibrinogen-binding protein	99	221	366
526	1	2150	1092	dbj D17366 STAA	Staphylococcus aureus atl gene for autolysin, complete cds and other ORFs	99	641	1059

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
528	2	58	963	gb L193001	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	99	260	906
528	3	1098	2870	gb L193001	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	99	866	1773
530	1	3	434	gb U319791	Staphylococcus aureus chorismate synthase (aroC) and nucleoside diphosphate kinase (ndk) genes, complete cds, dehydroquinase synthase (aroB) and geranylgeranyl pyrophosphate synthetase homolog (gerCC) genes, partial cds	99	432	432
530	2	1211	2395	gb U319791	Staphylococcus aureus chorismate synthase (aroC) and nucleoside diphosphate kinase (ndk) genes, complete cds, dehydroquinase synthase (aroB) and geranylgeranyl pyrophosphate synthetase homolog (gerCC) genes, partial cds	91	1185	1185
530	3	2409	2801	gb U319791	Staphylococcus aureus chorismate synthase (aroC) and nucleoside diphosphate kinase (ndk) genes, complete cds, dehydroquinase synthase (aroB) and geranylgeranyl pyrophosphate synthetase homolog (gerCC) genes, partial cds	88	181	393
530	4	2690	3484	gb L0500041	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	100	75	795
530	5	3482	4792	gb L0500041	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	99	905	1311
530	6	4790	5380	gb L0500041	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	100	196	591
539	1	3	338	emb X76490 SAGL	S.aureus (bb270) glnA and glnR genes	99	336	336
539	2	336	527	emb X76490 SAGL	S.aureus (bb270) glnA and glnR genes	100	189	192
554	1	727	365	gb U733741	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	100	54	363
554	2	2175	1252	gb U733741	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	99	918	924
554	3	1574	1374	gb U733741	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	96	122	201
584	2	1019	705	gb U212211	Staphylococcus aureus hyaluronate lyase (hysA) gene, complete cds	99	306	315
587	3	1475	4288	emb Z18852 SACF	S.aureus gene for clumping factor	98	2588	2814
598	1	3881	1953	dbj D28879 STAP	Staphylococcus aureus gene for penicillin-binding protein 1, complete cds	99	1873	1929

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
605	1	2	745	dbj D86240 D862	Staphylococcus aureus gene for unkown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	98	338	744
609	1	1628	816	emb X76490 SAGL	S.aureus (bb270) glnA and glnR genes	100	495	813
614	1	1280	642	gb M32103	Staphylococcus aureus lac repressor (lacR) gene, complete cds and lacA repressor (lacA), partial cds	99	639	639
626	1	2508	1255	gb M63176	Staphylococcus aureus helicase required for Tl81 replication (pcrA) gene, complete cds	100	225	1254
626	2	3315	2284	gb M63176	Staphylococcus aureus helicase required for Tl81 replication (pcrA) gene, complete cds	99	838	1032
629	1	1999	1001	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	99	990	999
629	2	1407	1195	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	98	194	213
631	2	5126	3228	emb Z18952 SACF	S.aureus gene for clumping factor	82	489	1899
632	1	3	551	emb Z30388 SAST	S.aureus (RN4220) genes for potential ABC transporter and potential membrane spanning protein	99	549	549
632	2	529	1323	emb Z30388 SAST	S.aureus (RN4220) genes for potential ABC transporter and potential membrane spanning protein	99	795	795
651	1	1909	1070	gb L19300	Staphylococcus aureus DNA sequence encoding three ORFs, complete cds; prophage phi-11 sequence homology, 5' flank	99	478	840
657	2	1800	1105	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	84	456	696
662	1	908	456	emb X13404 SAHL	Staphylococcus aureus hlb gene for beta-hemolysin	100	369	453
662	2	230	475	emb X13404 SAHL	Staphylococcus aureus hlb gene for beta-hemolysin	100	246	246
662	3	746	1399	emb X13404 SAHL	Staphylococcus aureus hlb gene for beta-hemolysin	99	653	654
682	1	956	480	gb M63177	S.aureus sigma factor (plaC) gene, complete cds	100	136	477
685	1	1182	592	gb U65000	Staphylococcus aureus type-I signal peptidase SpsA (spsA) gene, and type-I signal peptidase SpsB (spsB) gene, complete cds	98	534	591
685	2	1716	1153	gb U65000	Staphylococcus aureus type-I signal peptidase SpsA (spsA) gene, and type-I signal peptidase SpsB (spsB) gene, complete cds	96	564	564
697	1	3	527	gb M63177	S.aureus sigma factor (plaC) gene, complete cds	100	195	525
697	2	485	784	gb M63177	S.aureus sigma factor (plaC) gene, complete cds	97	280	300

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
710	1	15	503	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	99	217	489
733	1	26	205	gb M80252	Staphylococcus aureus norA1199 gene (which mediates active efflux of fluoroquinolones), complete cds	97	140	180
741	1	1736	1197	dbj D83951 STAL	Staphylococcus aureus DNA for LukM component, LukF-PV like component, complete cds	81	522	540
752	1	1	636	emb Y00356 SASP	Staphylococcus aureus V8 serine protease gene	99	618	636
752	2	588	956	emb Y00356 SASP	Staphylococcus aureus V8 serine protease gene	99	340	369
756	1	1308	709	emb X01645 SATO	Staphylococcus aureus (Wood 46) gene for alpha-toxin	98	567	600
777	1	1582	950	emb Z49245 SA42	S.aureus partial sod gene for superoxide dismutase	99	429	633
780	1	1111	557	gb U20503	Staphylococcus aureus MHC class II analog gene, complete cds	86	550	555
784	1	73	687	gb U63529	Staphylococcus aureus novel antigen gene, complete cds	99	568	615
797	1	182	544	dbj D14711 STAH	Staphylococcus aureus HSP10 and HSP60 genes	98	363	363
798	1	532	302	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	95	196	231
823	1	3	467	gb S77055	recF cluster: dnaA-replisome assembly protein...gyrB-DNA gyrase beta subunit [Staphylococcus aureus, YB886, Genomic, 3573 nt]	99	156	465
848	1	348	175	gb L25288	Staphylococcus aureus gyrase-like protein alpha and beta subunit (grlA and grlB) genes, complete cds	99	174	174
848	2	476	318	gb L25288	Staphylococcus aureus gyrase-like protein alpha and beta subunit (grlA and grlB) genes, complete cds	100	131	159
866	1	792	397	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	395	396
883	1	1	285	dbj D90119 STAN	S. aureus norA gene	99	131	285
884	1	606	334	emb X52543 SAAG	S.aureus agrA, agrB and hld genes	98	265	273
884	2	716	522	emb X52543 SAAG	S.aureus agrA, agrB and hld genes	100	195	195
912	2	517	681	emb Z30388 SAST	S.aureus (RN4220) genes for potential ABC transporter and potential membrane spanning protein	99	163	165
917	1	2	265	gb M64724	S.aureus tagatose 6-phosphate isomerase gene, complete cds	99	247	264
917	2	238	396	gb M64724	S.aureus tagatose 6-phosphate isomerase gene, complete cds	95	147	159
918	1	2426	1215	emb X93205 SAPT	S.aureus ptsH and ptsI genes	99	1212	1212

Table 1



S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
967	1	1	411	dbj D90119 STAN	S. aureus norA gene	97	395	411
991	1	672	337	emb X52543 SAAG	S. aureus agrA, agrB and hld genes	99	336	336
1000	1	1117	845	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	78	190	273
1001	1	498	265	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dlta, dltB, dltC and dltD genes, complete cds	99	234	234
1010	1	1	285	gb U21221	Staphylococcus aureus hyaluronate lyase (hysA) gene, complete cds	99	224	285
1046	1	656	330	emb X72700 SAPV	S. aureus genes for S and F components of Panton-Valentine leucocidins	85	205	327
1060	1	480	286	emb X58434 SAPD	S. aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	99	180	195
1073	1	1176	589	gb K02985	S. aureus (strain RN450) transposon Tn554 insertion site	100	131	588
1079	1	3	230	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dlta, dltB, dltC and dltD genes, complete cds	99	228	228
1079	2	218	484	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dlta, dltB, dltC and dltD genes, complete cds	100	267	267
1079	3	460	645	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dlta, dltB, dltC and dltD genes, complete cds	100	186	186
1092	1	289	146	emb X58434 SAPD	S. aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	98	124	144
1143	1	1	243	gb M63177	S. aureus sigma factor (plaC) gene, complete cds	99	243	243
1157	1	2	136	emb Z48003 SADN	S. aureus gene for DNA polymerase III	97	127	135
1189	1	720	361	gb S74031	norA=NorA {ISP794} [Staphylococcus aureus, NCTC 8325, Insertion, 1820 nt]	99	360	360
1190	1	2	283	gb M21834	S. aureus agr gene encoding an accessory gene regulator protein, complete cds	100	282	282
1190	2	1127	888	emb X52543 SAAG	S. aureus agrA, agrB and hld genes	100	240	240
1225	1	2	163	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	97	124	162
1243	1	2	529	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dlta, dltB, dltC and dltD genes, complete cds	99	495	528
1244	1	1	210	gb S74031	norA=NorA {ISP794} [Staphylococcus aureus, NCTC 8325, Insertion, 1820 nt]	100	210	210
1301	1	41	472	emb X76490 SAGL	S. aureus (bb270) glnA and glnR genes	99	299	432

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
1315	1	18	326	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	98	277	309
1519	1	2	175	dbj D28879 STAP	Staphylococcus aureus gene for penicillin-binding protein 1, complete cds	98	139	174
1663	1	1346	675	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	98	672	672
1797	1	644	324	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	99	321	321
1857	1	1	192	gb M90536	Staphylococcus aureus alpha-hemolysin gene, 3' end	98	192	192
1923	1	2	181	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	100	180	180
1957	1	2	346	gb U60589	Staphylococcus aureus novel antigen gene, complete cds	99	345	345
1988	1	1	402	dbj D86240 D862	Staphylococcus aureus gene for unknown function and dlt operon dltA, dltB, dltC and dltD genes,complete cds	100	402	402
2100	1	414	208	gb M63177	S.aureus sigma factor (plaC) gene, complete cds	99	207	207
2199	1	1	402	gb U66664	Staphylococcus aureus DNA fragment with class II promoter activity	99	131	402
2537	1	308	156	emb X17688 SAFE	S.aureus factor essential for expression of methicillin resistance (femA) gene, complete cds, and trpA gene, 3' end	99	153	153
2891	1	2	400	gb L25426	Staphylococcus aureus penicillin-binding protein 2 (pbp2) gene, complete cds	99	399	399
2950	1	778	398	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	100	358	381
2971	1	3	398	gb U51132	Staphylococcus aureus o-succinylbenzoic acid CoA ligase (mene), and o-succinylbenzoic acid synthetase (menc) genes, complete cds	97	272	396
2978	1	618	328	gb U31979	Staphylococcus aureus chorismate synthase (aroC) and nucleoside diphosphate kinase (ndk) genes, complete cds, dehydroauinate synthase (aroB) and geranylgeranyl pyrophosphate synthetase homolog (gerCC) genes, partial cds	98	250	291
2985	1	832	464	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	98	347	369
3006	1	2170	1784	gb U11779	Staphylococcus aureus methicillin-resistant ATCC 33952 clone RRNV30 16S-23S rRNA spacer region	87	82	387
3008	1	474	238	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	88	178	237
3008	2	451	281	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP20; HSP70; HSP40; ORF35, complete cds	97	120	171

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
3011	1	793	398	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	93	72	396
3019	1	2	235	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	97	234	234
3023	1	81	233	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	87	100	153
3029	1	90	287	gb U51133	Staphylococcus aureus phosphoenolpyruvate carboxykinase (pcka) gene, complete cds	100	135	198
3039	1	18	164	gb U51133	Staphylococcus aureus phosphoenolpyruvate carboxykinase (pcka) gene, complete cds	97	135	147
3039	2	70	327	gb U51133	Staphylococcus aureus phosphoenolpyruvate carboxykinase (pcka) gene, complete cds	77	183	258
3056	1	3	215	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	213	213
3059	1	1	261	dbj D30690 STAN	Staphylococcus aureus genes for ORF37; HSP70; HSP40; ORF35, complete cds	98	234	261
3073	1	27	284	gb U06451	Staphylococcus aureus proline permease homolog (putP) gene, complete cds	99	229	258
3074	1	2	397	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	96	250	396
3088	1	3	239	dbj D86727 D867	Staphylococcus aureus DNA for DNA polymerase III, complete cds	95	215	237
3097	1	444	244	emb Z48003 SADN	S.aureus gene for DNA polymerase III	97	160	201
3102	1	307	155	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	97	142	153
3121	1	568	398	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	100	88	171
3125	1	463	233	emb X89233 SARP	S.aureus DNA for rpoC gene	98	192	231
3133	1	2	175	emb Z18852 SACF	S.aureus gene for clumping factor	96	154	174
3160	1	420	211	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	89	197	210
3176	1	1	378	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	96	91	378
3192	1	420	211	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	98	72	210
3210	1	3	143	gb M76714	Staphylococcus aureus peptidoglycan hydrolase gene, complete cds	96	141	141

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
3232	3	2106	1282	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	71	257	825
3538	1	2	394	emb X89233 SARP	S.aureus DNA for rpoC gene	99	350	393
3543	1	392	634	gb L11530	Staphylococcus aureus transfer RNA sequence with two rRNAs	99	102	243
3555	1	637	320	emb Z18852 SACF	S.aureus gene for clumping factor	99	307	318
3559	1	3	182	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	100	141	180
3559	2	95	313	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	98	174	219
3563	1	278	141	gb U35773	Staphylococcus aureus prolipoprotein diacylglyceryl transferase (lgt) gene, complete cds	100	79	138
3563	2	527	363	gb U35773	Staphylococcus aureus prolipoprotein diacylglyceryl transferase (lgt) gene, complete cds	98	162	165
3566	1	3	422	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	98	175	420
3598	1	2	262	gb L43098	Transposon Tn5404 and insertion sequences IS1181 and IS1182 (from Staphylococcus aureus) DNA	99	253	261
3593	1	3	350	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lace), and phospho-beta-galactosidase (lacG) genes, complete cds	99	345	348
3600	1	758	381	emb Z18852 SACF	S.aureus gene for clumping factor	72	346	378
3602	1	788	396	emb Z18852 SACF	S.aureus gene for clumping factor	98	319	393
3656	1	1013	528	emb Z18852 SACF	S.aureus gene for clumping factor	84	403	486
3682	1	3	236	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	231	234
3682	2	224	415	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	112	192
3693	1	758	423	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	100	229	336
3702	1	593	354	gb L11530	Staphylococcus aureus transfer RNA sequence with two rRNAs	96	81	240
3725	1	924	463	emb Z18852 SACF	S.aureus gene for clumping factor	71	367	462
3761	1	809	450	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	85	333	360
3767	1	1	402	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	98	387	402

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
3775	1	2	286	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	227	285
3786	1	456	229	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	100	204	228
3786	2	542	366	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	95	123	177
3798	1	3	251	emb X17679 SACO	Staphylococcus aureus coa gene for coagulase	99	249	249
3813	1	793	398	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	98	396	396
3819	1	184	402	emb X68425 SA23	S.aureus gene for 23S rRNA	99	161	219
3844	1	932	468	gb U48826	Staphylococcus aureus elastin binding protein (ebpS) gene, complete cds	87	204	465
3845	1	1	381	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	94	356	381
3856	1	798	400	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	76	192	399
3859	1	1049	573	emb Z18852 SACF	S.aureus gene for clumping factor	85	347	477
3871	1	650	327	gb M76714	Staphylococcus aureus peptidoglycan hydrolase gene, complete cds	100	299	324
3876	1	2	253	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	100	217	252
3877	1	572	288	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	97	209	285
3878	1	1	237	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	96	155	237
3888	1	3	173	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	98	171	171
3893	1	1	183	emb X89233 SARP	S.aureus DNA for rpoC gene	100	170	183
3893	2	181	357	emb X89233 SARP	S.aureus DNA for rpoC gene	98	79	177
3894	1	3	485	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	450	483
3895	1	836	420	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	99	411	417
3905	1	48	239	gb L05004	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	100	159	192
3905	2	188	400	gb L05004	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	97	88	213

Table 1



S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
3910	1	3	359	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	99	278	357
3915	1	1	330	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	75	175	330
3964	1	691	347	emb Z48003 SADN	S.aureus gene for DNA polymerase III	100	295	345
4007	1	199	390	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	98	163	192
4036	1	3	371	dbj D10489 STAG	Staphylococcus aureus genes for DNA gyrase A and B, complete cds	99	339	369
4046	1	692	348	emb Z18852 SACF	S.aureus gene for clumping factor	87	221	345
4060	1	1	375	emb Z18852 SACF	S.aureus gene for clumping factor	96	271	375
4061	1	860	432	emb Z48003 SADN	S.aureus gene for DNA polymerase III	99	429	429
4062	1	606	304	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	75	198	303
4085	1	58	402	gb U11786	Staphylococcus aureus methicillin-resistant ATCC 33952 clone RRNV42 16S-23S rRNA spacer region	98	127	345
4088	1	2	301	gb L43098	Transposon Tn5404 and insertion sequences IS1181 and IS1182 (from Staphylococcus aureus) DNA	99	227	300
4093	1	2	277	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	99	276	276
4097	1	1	402	emb Z18852 SACF	S.aureus gene for clumping factor	74	307	402
4116	1	22	402	gb L05004	Staphylococcus aureus dehydroquinase synthase (aroB) gene, 3' end cds; 3-phosphoshikimate-1-carboxyvinyltransferase (aroA) gene, complete cds; ORF3, complete cds	98	157	381
4125	1	240	401	gb U73374	Staphylococcus aureus type 8 capsule genes, cap8A, cap8B, cap8C, cap8D, cap8E, cap8F, cap8G, cap8H, cap8I, cap8J, cap8K, cap8L, cap8M, cap8N, cap8O, cap8P, complete cds	100	86	162
4149	1	35	247	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	99	200	213
4151	1	629	366	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	87	150	264
4154	1	754	398	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	297	357
4179	1	1	294	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	98	240	294

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
4203	1	1	255	emb X89233 SARP	S.aureus DNA for rpoC gene	99	239	255
4206	1	1	303	emb Z18852 SACF	S.aureus gene for clumping factor	100	236	303
4206	2	195	344	emb Z18852 SACF	S.aureus gene for clumping factor	95	65	150
4208	1	108	314	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydroliipoamide acetyltransferase and dihydroliipoamide dehydrogenase	89	76	207
4216	1	656	330	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydroliipoamide acetyltransferase and dihydroliipoamide dehydrogenase	98	326	327
4226	1	594	298	gb L11530	Staphylococcus aureus transfer RNA sequence with two rRNAs	97	132	297
4260	1	216	383	gb U11784	Staphylococcus aureus methicillin-resistant ATCC 33952 clone RRNV40 16S-23S rRNA spacer region	83	141	168
4272	1	355	179	emb Z48003 SADN	S.aureus gene for DNA polymerase III	100	164	177
4276	1	4	177	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	99	150	174
4277	1	1	270	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	265	270
4282	1	691	377	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	98	282	315
4291	1	379	191	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	183	189
4295	1	3	329	emb X16457 SAST	Staphylococcus aureus gene for staphylocoagulase	94	144	327
4313	1	435	280	gb L11530	Staphylococcus aureus transfer RNA sequence with two rRNAs	100	94	156
4315	1	3	185	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	100	158	183
4315	2	101	310	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	98	75	210
4327	1	1	294	gb L43098	Transposon Tn5404 and insertion sequences IS1181 and IS1182 (from Staphylococcus aureus) DNA	98	294	294
4360	1	603	319	gb U02910	Staphylococcus aureus ATCC 25923 16S rRNA gene, partial sequence	100	116	285
4364	1	3	146	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	95	140	144
4388	1	167	310	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	73	119	144

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
4401	1	2	313	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	97	243	312
4421	1	36	281	dbj D12572 STA2	Staphylococcus aureus rrnA gene for 23S ribosomal RNA	100	112	246
4426	1	3	293	emb Z18852 SACF	S.aureus gene for clumping factor	85	185	291
4428	1	493	248	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	139	246
4462	1	2	271	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	99	270	270
4466	1	1	240	emb Z18852 SACF	S.aureus gene for clumping factor	99	231	240
4469	1	1	312	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	99	265	312
4485	1	3	263	gb L43098	Transposon TnS404 and insertion sequences IS1181 and IS1182 (from Staphylococcus aureus) DNA	98	259	261
4492	1	74	400	gb M86227	Staphylococcus aureus DNA gyrase B subunit (gyrB) RecF homologue (recF) and DNA gyrase A subunit (gyrA) gene, complete cds	85	104	327
4497	1	535	269	emb Z18852 SACF	S.aureus gene for clumping factor	99	213	267
4529	1	2	172	emb X64172 SARP	S.aureus rplL, orf202, rpoB(rif) and rpoC genes for ribosomal protein L7/L12, hypothetical protein ORF202, DNA-directed RNA polymerase beta & beta' chains	100	151	171
4547	1	1	300	emb X62992 SAFN	S.aureus fnbB gene for fibronectin binding protein B	100	157	300
4554	1	318	160	emb Z18852 SACF	S.aureus gene for clumping factor	84	126	159
4565	1	9	227	emb Z18852 SACF	S.aureus gene for clumping factor	84	213	219
4569	1	79	222	emb Z18852 SACF	S.aureus gene for clumping factor	98	127	144
4608	1	22	216	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	92	168	195
4614	1	464	234	emb Z18852 SACF	S.aureus gene for clumping factor	86	169	231
4623	1	105	302	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	99	152	198
4632	1	18	206	gb J03479	S.aureus enzyme III-lac (lacF), enzyme II-lac (lacE), and phospho-beta-galactosidase (lacG) genes, complete cds	98	183	189
4646	1	1	222	emb Z18852 SACF	S.aureus gene for clumping factor	84	100	222
4687	1	2	166	gb J04151	S.aureus fibronectin-binding protein (fnbA) mRNA, complete cds	98	156	165

Table 1

S. aureus - Coding regions containing known sequences

Contig ID	ORF ID	Start (nt)	Stop (nt)	match accession	match gene name	percent ident	HSP nt length	ORF nt length
4695	1	313	158	gb L14017	Staphylococcus aureus methicillin-resistance protein (mecR) gene and unknown ORF, complete cds	75	155	156
4703	1	1	153	emb X58434 SAPD	S.aureus pdhB, pdhC and pdhD genes for pyruvate decarboxylase, dihydrolipoamide acetyltransferase and dihydrolipoamide dehydrogenase	98	103	153